

WEST Search History

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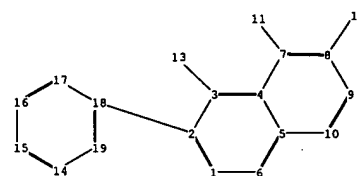
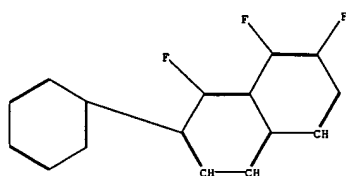
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DATE: Tuesday, December 05, 2006

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	<i>DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ</i>		
<input type="checkbox"/>	L1	DE-19522195-\$.did. or jp-2001040354-\$.did. or JP-2005047838-\$.did. or jp-2005048007-\$.did. or WO-2005000995-\$.did. or JP-2004352931-\$.did. or jp-2004204133-\$.did. or wo-2004058917-\$.did. or jp-2001040354-\$.did.	16

END OF SEARCH HISTORY



chain nodes :

11 12 13

ring nodes :

1 2 3 4 5 6 7 8 9 10 14 15 16 17 18 19

chain bonds :

2-18 3-13 7-11 8-12

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 9-10 14-15 14-19 15-16 16-17 17-18 18-19

exact bonds :

2-18 3-13 7-11 8-12

normalized bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 9-10 14-15 14-19 15-16 16-17 17-18 18-19

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS12:CLASS
13:CLASS14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

L9 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:287829 CAPLUS
 DN 140:312432
 TI 1,7,8-Trifluoronaphthalene-2-naphthol and method for producing liquid crystal compound using same
 IN Kusumoto, Tetsuo; Nagashima, Yutaka; Takehara, Sadao; Matsumoto, Takashi
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004029015	A1	20040408	WO 2003-JP12333	20030926
	W: CN, KR, US				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
	JP 2004137258	A2	20040513	JP 2003-304412	20030828
	JP 3632702	B2	20050323		
	EP 1544187	A1	20050622	EP 2003-753954	20030926
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
	CN 1684933	A	20051019	CN 2003-822627	20030926
	US 2006163537	A1	20060727	US 2005-527674	20050311
PRAI	JP 2002-282887	A	20020927		
	WO 2003-JP12333	W	20030926		
OS	MARPAT 140:312432				

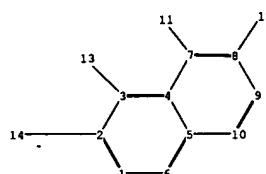
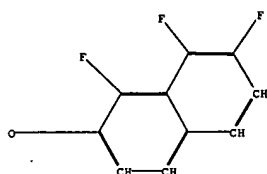
L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2001:107960 CAPLUS
 DN 134:186024
 TI Nematic liquid crystal compositions containing naphthalene derivatives and liquid crystal displays thereof
 IN Takeuchi, Kiyofumi; Takatsu, Haruyoshi
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 108 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001040354	A2	20010213	JP 1999-213363	19990728
PRAI	JP 1999-213363		19990728		
OS	MARPAT 134:186024				

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1996:209654 CAPLUS
 DN 124:260617
 TI Preparation of trifluornaphthalene derivatives as liquid crystal components
 IN Manero, Javier; Fuss, Robert Walter; Hornung, Barbara
 PA Hoechst A.-G., Germany
 SO Ger. Offen., 69 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19522195	A1	19951221	DE 1995-19522195	19950619
PRAI	DE 1995-19522195	A1	19950619		
	DE 1994-4421547		19940620		

OS MARPAT 124:260617



chain nodes :

11 12 13 14

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

2-14 3-13 7-11 8-12

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 9-10

exact/norm bonds :

2-14

exact bonds :

3-13 7-11 8-12

normalized bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 9-10

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:CLASS
13:CLASS 14:CLASS

L4 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:1174159 CAPLUS
TI Trifluoronaphthalene compounds, liquid crystal compositions containing them, and liquid crystal displays using the compositions
IN Matsumoto, Takashi; Nagashima, Yutaka
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 14pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006306756	A2	20061109	JP 2005-129422	20050427
PRAI	JP 2005-129422		20050427		

L4 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:578124 CAPLUS
DN 145:73487
TI Trifluoronaphthalene derivative for liquid crystal composition
IN Matsumoto, Takashi; Nagashima, Yutaka
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006151928	A2	20060615	JP 2004-361219	20041214
PRAI	JP 2004-315737	A	20041029		

L4 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:321839 CAPLUS
DN 144:379247
TI Trifluoronaphthalene derivatives, their nematic liquid crystal compositions having high voltage holding ratio, and displays therewith
IN Matsumoto, Takashi; Nagashima, Yutaka; Kusumoto, Akio
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006089604	A2	20060406	JP 2004-277073	20040924
PRAI	JP 2004-277073		20040924		

L4 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:234021 CAPLUS
DN 144:302158
TI Liquid crystalline alkylcyclohexylethylmethoxytrifluoronaphthalenes, their synthesis, liquid crystal compositions and display devices
IN Li, Cheng-Ze; Takehara, Sadao; Nagashima, Yutaka; Kusumoto, Akio
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006069914	A2	20060316	JP 2004-252023	20040831

PRAI JP 2004-252023

20040831

L4 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:212020 CAPLUS
DN 144:283362
TI Liquid crystal composition containing trifluoronaphthalene derivative,
display element, liquid crystal compound, manufacture thereof, and
manufacture of the intermediate
IN Li, Cheng-Ze; Takehara, Sadao; Nagashima, Yutaka; Kusumoto, Akio
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006063205	A2	20060309	JP 2004-248234	20040827
PRAI	JP 2004-248234		20040827		

L4 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:1074045 CAPLUS
DN 143:376544
TI Liquid crystal composition containing trifluoronaphthalene derivatives for
liquid crystal displays
IN Matsumoto, Takashi; Nagashima, Yutaka; Kusumoto, Akio
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005272562	A2	20051006	JP 2004-86158	20040324
PRAI	JP 2004-86158		20040324		

L4 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:569438 CAPLUS
DN 143:86830
TI Trifluoronaphthalene nematic liquid crystal compounds, liquid crystal
compositions comprising same, and liquid crystal displays
IN Lee, Seung-Taek; Takehara, Sadao; Nagashima, Yutaka; Kusumoto, Akio
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005171083	A2	20050630	JP 2003-413149	20031211
PRAI	JP 2003-413149		20031211		
OS	MARPAT 143:86830				

L4 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:569359 CAPLUS
DN 143:77968
TI Preparation of 1-fluoro-2-naphthols
IN Matsumoto, Takashi; Kusumoto, Akio
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005170900	A2	20050630	JP 2003-416363	20031215
PRAI	JP 2003-416363		20031215		
OS	CASREACT 143:77968; MARPAT 143:77968				

L4 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:253680 CAPLUS

DN 142:345262

TI Liquid crystal compositions showing large negative dielectric anisotropy, trifluoronaphthalene derivatives therefor, and liquid crystal displays driving at wide temperature range therefrom

IN Li, Seung-Taek; Takehara, Sadao; Nagashima, Yutaka; Kusumoto, Akio

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005075850	A2	20050324	JP 2003-304410	20030828
PRAI	JP 2003-304410		20030828		
OS	MARPAT 142:345262				

L4 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:155673 CAPLUS

DN 142:240200

TI Preparation of 2-fluorophenols from 2,2-difluorocyclohexa-3,4-dienones

IN Takehara, Sadao; Matsumoto, Takashi

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005047838	A2	20050224	JP 2003-204474	20030731
PRAI	JP 2003-204474		20030731		
OS	CASREACT 142:240200; MARPAT 142:240200				

L4 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:287829 CAPLUS

DN 140:312432

TI 1,7,8-Trifluoronaphthalene-2-naphthol and method for producing liquid crystal compound using same

IN Kusumoto, Tetsuo; Nagashima, Yutaka; Takehara, Sadao; Matsumoto, Takashi

PA Dainippon Ink and Chemicals, Inc., Japan

SO PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004029015	A1	20040408	WO 2003-JP12333	20030926
	W: CN, KR, US				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				
	IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
	JP 2004137258	A2	20040513	JP 2003-304412	20030828
	JP 3632702	B2	20050323		

EP 1544187 A1 20050622 EP 2003-753954 20030926
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK
CN 1684933 A 20051019 CN 2003-822627 20030926
US 2006163537 A1 20060727 US 2005-527674 20050311
PRAI JP 2002-282887 A 20020927
WO 2003-JP12333 W 20030926
OS MARPAT 140:312432

L15 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:1089224 CAPLUS
DN 145:429612
TI Difluorobenzene derivatives having negative dielectric anisotropy and low viscosity for liquid crystal compositions
IN Matsumoto, Takashi
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 22pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

*with
right-hand r'g
(open) \subseteq instead
of CH*

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006282544	A2	20061019	JP 2005-102071	20050331
PRAI	JP 2005-102071		20050331		

L15 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:977935 CAPLUS
DN 145:366686
TI Difluorobenzene derivative and nematic liquid crystal composition making use of the same
IN Kawakami, Shotaro; Matsumoto, Takashi; Kusumoto, Tetsuo
PA Dainippon Ink and Chemicals, Inc., Japan
SO PCT Int. Appl., 46pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006098366	A1	20060921	WO 2006-JP305128	20060315
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	JP 2005-77026	A	20050317		
	JP 2005-159224	A	20050531		
	JP 2005-191843	A	20050630		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:889304 CAPLUS
DN 145:302939
TI Nematic liquid crystal compositions containing trifluoronaphthalene derivatives, display devices, and the compounds
IN Nagashima, Yutaka
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 15pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2006225588 A2 20060831 JP 2005-43879 20050221
PRAI JP 2005-43879 20050221

L15 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:845268 CAPLUS
DN 145:259409
TI Trifluoronaphthalene derivative and liquid crystal composition containing
the compound for liquid crystal display
IN Nagashima, Yutaka
PA Dainippon Ink and Chemicals, Inc., Japan
SO PCT Int. Appl., 28pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006088177	A1	20060824	WO 2006-JP302935	20060220
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
	GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ,				
	LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ,				
	NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,				
	SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,				
	YU, ZA, ZM, ZW				
	RW:				
	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				
	IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,				
	CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,				
	GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
	KG, KZ, MD, RU, TJ, TM				
	JP 2006257083	A2	20060928	JP 2006-42299	20060220
PRAI	JP 2005-43878	A	20050221		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:563904 CAPLUS
DN 145:53425
TI Difluorochromane derivatives having large negative dielectric anisotropy,
their liquid crystal compositions, and displays therewith
IN Matsumoto, Takashi
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006151864	A2	20060615	JP 2004-343879	20041129
PRAI	JP 2004-343879		20041129		

L15 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:464923 CAPLUS
DN 144:477957
TI Nematic liquid crystal compositions with negative dielectric anisotropy
and liquid crystal displays using them
IN Sudo, Takeshi; Kawakami, Shotaro
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 30 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006124544	A2	20060518	JP 2004-315736	20041029
PRAI	JP 2004-315736		20041029		

L15 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:1099157 CAPLUS
 DN 143:356857
 TI Nematic liquid crystals with negative and large dielectric anisotropy and low refractive index anisotropy, and liquid crystal displays using them
 IN Kawakami, Shotaro
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 21 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005281560	A2	20051013	JP 2004-99038	20040330
PRAI	JP 2004-99038		20040330		

L15 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:1099156 CAPLUS
 DN 143:376621
 TI Nematic liquid crystal compositions with negative dielectric anisotropy, cold nematic stability, and high refractive index anisotropy, and liquid crystal displays using them
 IN Kawakami, Shotaro
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005281559	A2	20051013	JP 2004-99037	20040330
PRAI	JP 2004-99037		20040330		

L15 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:726202 CAPLUS
 DN 143:203015
 TI Liquid crystal compositions showing negative dielectric constant anisotropy, stable nematic order at low temperature, and large refractive index anisotropy and displays therefrom
 IN Kawakami, Shotaro
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 20 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005213320	A2	20050811	JP 2004-19759	20040128
PRAI	JP 2004-19759		20040128		

L15 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:340575 CAPLUS
 DN 142:400723
 TI Nematic liquid crystal compositions with large negative dielectric anisotropy and small refractive index anisotropy and liquid crystal displays therewith

IN Kawakami, Shotaro
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005105132	A2	20050421	JP 2003-340349	20030930
PRAI	JP 2003-340349		20030930		
OS	MARPAT 142:400723				

L15 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:160026 CAPLUS

DN 142:249460

TI Trifluoronaphthalene derivatives., liquid crystal compositions containing them with large negative dielectric anisotropy, and display devices using them

IN Lee, Seung-Taek; Takehara, Sadao; Nagashima, Yutaka; Kusumoto, Akio

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005048007	A2	20050224	JP 2003-204475	20030731
PRAI	JP 2003-204475		20030731		
OS	MARPAT 142:249460				

L15 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:14502 CAPLUS

DN 142:103458

TI Chroman derivative and liquid-crystal composition containing the compound for liquid crystal display

IN Matsumoto, Takashi; Kusumoto, Tetsuo; Kawakami, Shotaro

PA Dainippon Ink and Chemicals, Inc., Japan

SO PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005000995	A1	20050106	WO 2004-JP9397	20040625
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP	1640433	A1	20060329	EP 2004-746866	20040625
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
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L15 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:1076762 CAPLUS

DN 142:65534

TI Liquid crystal composition containing difluorotetrahydronaphthalene derivative and liquid crystalline compound

IN Kawahara, Tatsuo; Takehara, Sadao; Nagashima, Yutaka; Kusumoto, Akio

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004352931	A2	20041216	JP 2003-154594	20030530
PRAI	JP 2003-154594		20030530		
OS	MARPAT 142:65534				

L15 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:584768 CAPLUS

DN 141:148197

TI Nematic liquid crystal compositions having large negative dielec. anisotropy for liquid crystal displays

IN Tanaka, Yoshikiyo; Takeuchi, Kiyofumi; Takatsu, Haruyoshi

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004204133	A2	20040722	JP 2002-376845	20021226
PRAI	JP 2002-376845		20021226		
OS	MARPAT 141:148197				

L15 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:569989 CAPLUS

DN 141:131393

TI Nematic liquid-crystal composition and liquid-crystal display element employing the same

IN Tanaka, Yoshikiyo; Takeuchi, Kiyofumi; Takatsu, Haruyoshi

PA Dainippon Ink and Chemicals, Inc., Japan

SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	W: CN, KR, US				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
	JP 2004250668	A2	20040909	JP 2003-399114	20031128
	EP 1591513	A1	20051102	EP 2003-780950	20031219
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

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OS MARPAT 141:131393

L15 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:107960 CAPLUS
DN 134:186024
TI Nematic liquid crystal compositions containing naphthalene derivatives and
liquid crystal displays thereof
IN Takeuchi, Kiyofumi; Takatsu, Haruyoshi
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 108. pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001040354	A2	20010213	JP 1999-213363	19990728
PRAI	JP 1999-213363		19990728		
OS	MARPAT 134:186024				

L15 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:209654 CAPLUS
DN 124:260617
TI Preparation of trifluornaphthalene derivatives as liquid crystal
components
IN Manero, Javier; Fuss, Robert Walter; Hornung, Barbara
PA Hoechst A.-G., Germany
SO Ger. Offen., 69 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

pyridine

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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OS	MARPAT 124:260617				